



Holcim (US) Inc.
14738 Highway 79 North
Clarksville, MO 63336

Phone 573 242 3571
Fax 573 242 3114
www.holcim.com/us

October 19, 2004

Charles F. Gill, or Current Licensing Agent
Materials Licensing Branch, Region III Office
U.S. Nuclear Regulatory Commission
2443 Warrenville Road
Lisle, IL 60532-4352

Dear Mr. Gill:

The following is a request to amend the radioactive material license belonging to Holcim (US) Inc. The License Number is 24-11511-01, Amendment Number 21, having Expiration Date of May 31, 2014.

a. Please amend the license and change the Assistant Radiation Safety Officer for the license to Barton Mabry. A copy of his training and credentials are attached.

Please send correspondence to R. M. Wester & Associates, Inc. whom has assisted Holcim in this regard. Their address is 215 Indacom, St. Peters, Missouri. Feel free to contact R. M. Wester & Associates, Inc. directly at 636-928-9628 if you have any questions or comments regarding the above.

Sincerely,
Holcim (US) Inc.

A handwritten signature in black ink that reads 'Orval (Joe) Gray'.

Orval (Joe) Gray
Radiation Safety Officer

Encs.
Delegation letter
Credentials



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To whom it may concern:

This letter appoints R. M. Wester & Associates, Inc. to assist Holcim (US) Inc. in the creation of our NRC amendment. Please contact R. M. Wester & Associates, Inc., directly regarding the amendment. Their address is 215 Indacom, St. Peters, Missouri. Their telephone number is 636-928-9628. Feel free to contact me if you have any questions or comments regarding the above.

Sincerely,
Holcim (US) Inc.

Orval (Joe) Gray
Radiation Safety Officer

| | | | | | | | |
|--|---|--|----------------------------|--------------|----------|-----------------|--------|
| NRC FORM 313 (10-2002) 10 CFR 30, 32, 33, 34, 35, 36, 39, and 40 | U.S. NUCLEAR REGULATORY COMMISSION | APPROVED BY OMB: NO. 3150-0120 Estimated burden per response to comply with this mandatory collection request: 7 hours. Submittal of the application is necessary to determine that the applicant is qualified and that adequate procedures exist to protect the public health and safety. Send comments regarding burden estimate to the Records Management Branch (T-6 ES), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollects@nrc.gov , and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0120), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection. | EXPIRES: 10/31/2005 | | | | |
| <h2 style="margin: 0;">APPLICATION FOR MATERIAL LICENSE</h2> | | | | | | | |
| INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW. | | | | | | | |
| APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH: DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS U.S. NUCLEAR REGULATORY COMMISSION WASHINGTON, DC 20555-0001 ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS: IF YOU ARE LOCATED IN: CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, PENNSYLVANIA, RHODE ISLAND, OR VERMONT, SEND APPLICATIONS TO: LICENSING ASSISTANT SECTION NUCLEAR MATERIALS SAFETY BRANCH U.S. NUCLEAR REGULATORY COMMISSION, REGION I 475 ALLENDALE ROAD KING OF PRUSSIA, PA 19406-1415 ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUERTO RICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND APPLICATIONS TO: SAM NUNN ATLANTA FEDERAL CENTER U. S. NUCLEAR REGULATORY COMMISSION, REGION II 61 FORSYTH STREET, S.W., SUITE 23T85 ATLANTA, GEORGIA 30303-8931 PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTIONS. | | IF YOU ARE LOCATED IN: ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO: MATERIALS LICENSING BRANCH U.S. NUCLEAR REGULATORY COMMISSION, REGION III 801 WARRENVILLE RD. Lisle, IL 60532-4351 ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH, WASHINGTON, OR WYOMING, SEND APPLICATIONS TO: NUCLEAR MATERIALS LICENSING SECTION U.S. NUCLEAR REGULATORY COMMISSION, REGION IV 611 RYAN PLAZA DRIVE, SUITE 400 ARLINGTON, TX 76011-8064 | | | | | |
| 1. THIS IS AN APPLICATION FOR (Check appropriate item) <input type="checkbox"/> A. NEW LICENSE <input checked="" type="checkbox"/> B. AMENDMENT TO LICENSE NUMBER <u>24-11511-01</u> <input type="checkbox"/> C. RENEWAL OF LICENSE NUMBER _____ | | 2. NAME AND MAILING ADDRESS OF APPLICANT (Include ZIP code) <div style="text-align: center;"> Holcim (US) Inc. 14738 Highway 79 Clarksville, MO 63336 </div> | | | | | |
| 3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED <div style="text-align: center;"> Holcim (US) Inc. 14738 Highway 79 Clarksville, MO 63336 </div> | | 4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION <div style="text-align: center;"> Orval (Joe) Gray TELEPHONE NUMBER 573-242-3571 </div> | | | | | |
| SUBMIT ITEMS 5 THROUGH 11 ON 8-1/2 X 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE. | | | | | | | |
| 5. RADIOACTIVE MATERIAL a. Element and mass number; b. chemical and/or physical form; and c. maximum amount | | 6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED. | | | | | |
| 7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE. <div style="text-align: center;">Please See Attached</div> | | 8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS. | | | | | |
| 9. FACILITIES AND EQUIPMENT. | | 10. RADIATION SAFETY PROGRAM. | | | | | |
| 11. WASTE MANAGEMENT. | | 12. LICENSE FEES (See 10 CFR 170 and Section 170.31) <table style="width: 100%; border: none;"> <tr> <td style="border: none;">FEE CATEGORY</td> <td style="border: none; text-align: center;">3M</td> <td style="border: none;">AMOUNT ENCLOSED</td> <td style="border: none; text-align: center;">\$ N/A</td> </tr> </table> | | FEE CATEGORY | 3M | AMOUNT ENCLOSED | \$ N/A |
| FEE CATEGORY | 3M | AMOUNT ENCLOSED | \$ N/A | | | | |
| 13. CERTIFICATION. (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, 36, 39, AND 40, AND THAT ALL INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948 62 STAT. 749 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO | | | | | | | |
| CERTIFYING OFFICER -- TYPED/PRINTED NAME AND TITLE <div style="text-align: center;">Orval (Joe) Gray, R.S.O.</div> | | SIGNATURE <div style="text-align: center;"> DATE <div style="text-align: right; font-size: 1.2em;">10/25/04</div> </div> | | | | | |
| FOR NRC USE ONLY | | | | | | | |
| TYPE OF FEE | FEE LOG | FEE CATEGORY | AMOUNT RECEIVED | CHECK NUMBER | COMMENTS | | |
| | | | \$ | | | | |
| APPROVED BY | | | | DATE | | | |

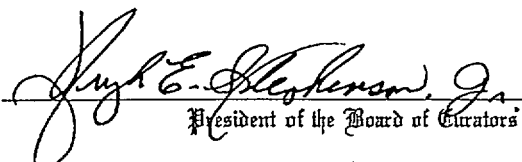
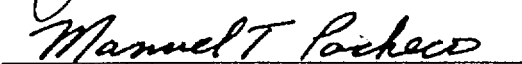


Be it known that the Curators, having been advised by the Faculty that
Barton William Mabry
has completed the Course of Study required of candidates for the degree of
Bachelor of Science in Electrical Engineering

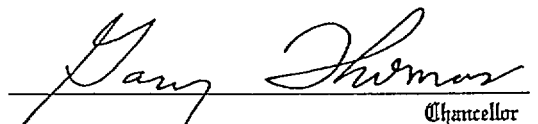

and is qualified to receive the same, do by these presents confer said degree
with all the honors and privileges appertaining thereto.

In testimony whereof the signatures of the proper officials and the
seal of the University are affixed.

Done at the University in the City of Rolla, State of Missouri,
this sixteenth day of December, in the year of our Lord
two thousand.


President of the Board of Curators

President of the University




Chancellor

Dean

March 31 – April 2, 2003 Radiation Safety Seminar Performance Objectives for the Gauge Group

These performance objectives are tailored to the participants' needs. Each session is 1 hour or longer.

Day One: Morning Session

- Understand physics and interactions of radiation with matter as it pertains to common radionuclides used in gauges.
- View slides on specific operation of many types of gauges (to understand common types of gauges and how they work).
- Know general characteristics of source capsule configuration and shutter designs.
- Calculate radioactive decay.

Day One: Afternoon Session

- Demonstration of gauge types/uses.
- Know what you can and cannot do with gauges with regards to maintenance and repair.
- Get hands-on experience with opening and closing shutters (both cylinder and flat swing type).
- Understand badge requirements - who needs them, why, etc.
- Discuss device registrations and general/specific licenses for gauges.

Day Two: Morning Session

- Hands-on with gauges/dummy sources.
- Observe proper lockout/tagout demonstration and then lockout/tagout a gauge (hands-on).
- Determine what signs are needed in experimental settings.
- Know ALARA strategies for mills/gauges.
- Demonstration of time, distance, and shielding principles.
- Understand survey procedures - exposure rate monitoring, leak tests, and wipe tests.
- Calculate dose from a point source.

Day Two: Afternoon Session

- Understand responsibilities of the RSO for the radiation safety program.
- Discussion of emergency preparedness and response.
- Do leak tests.
- Take hands-on radiation measurements with a Geiger counter and an ionization chamber around sources to observe how radiation is shielded, collimated, and scattered.
- Take radiation measurements of a source through various shielding materials to observe attenuation.
- Take radiation measurements of a source at various distances to understand the inverse square law.
- Know how to receive and ship a radioactive package.

Radiation Safety Seminar

March 31 – April 2, 2003

Ft. Lauderdale

| Mon. 03/31/03 | Description | Objectives | Trainer(s) |
|----------------------|---|--|-------------------|
| 07:30 – 8:00 a.m. | Continental Breakfast | Not Applicable (NA) | |
| 08:00 – 08:10 | Seminar Objectives/Overview | Understand seminar objectives and meet trainers. | Bob Kaiser |
| 08:10 – 08:30 | Radiation and Its Uses <ul style="list-style-type: none"> • Ionizing radiation and radioactive decay • Contemporary applications | Understand the basic properties of ionizing radiation. Know common applications of ionizing radiation in industry, research and medicine. | Sue Engelhardt |
| 08:30 – 08:50 | Regulatory Agencies and Licensing <ul style="list-style-type: none"> • Where regulatory standards come from • NRC vs. Agreement States • Other agencies (e.g., OSHA, FDA, EPA, DOT) | Understand how the NRC regulations are developed. Understand difference between Agreement vs. Non-Agreement states. Know how other agencies regulate radiation. | Sue |
| 08:50 – 09:00 | Break | NA | |
| 09:00 – 10:30 | Radiation Physics <ul style="list-style-type: none"> • Atomic composition, structure, and terms • Radioactive decay and half-life • Properties of common decay products • Radioactive decay modes and schemes • Interactions with matter | Know the basic atomic structure and common terms. Understand half-life and radioactive decay. Know basic properties of alpha, beta, x-ray, & gamma. Know the basic radioactive decay modes and emission characteristics. Understand interaction mechanisms (directly vs. indirectly ionizing). | Ralph Grunewald |
| 10:30 – 11:30 | Group Sessions | See Performance Objectives for Group | All |
| 11:30 – 12:30 p.m. | Lunch | NA | |
| 12:30 – 01:00 | Radiation Units <ul style="list-style-type: none"> • Exposure units • Dose and dose equivalent units • Energy transfer (LET, QF) | Understand the difference between exposure and dose. Know the traditional and SI units for exposure (R C/kg), dose (rad, Gy), and dose equivalent (rem, Sv). Understand linear energy transfer and quality factors as these pertain to biological effectiveness. | Josh |
| 01:00 – 01:20 | Common Sources of Radiation <ul style="list-style-type: none"> • Naturally occurring • Medical | Understand typical levels of radiation from common sources. | Sue |

| Mon. 03/31/03 (continued) | Description | Objectives | Trainer(s) |
|--------------------------------------|---|--|-------------------|
| 01:20 – 01:30 | Break | NA | |
| 01:30 – 02:20 | Regulatory Dose Limits and Radiation Dosimetry <ul style="list-style-type: none"> • Dose limits (public vs. occupational) • Types of dosimeters; how they work • Personnel monitoring requirements • Dosimetry reporting requirements | Know the regulatory dose limits for radiation workers, the embryo/fetus of a declared pregnant woman, and members of the public. Know types of personnel dosimeters and their limitations. Know monitoring and reporting requirements. | Josh Walkowicz |
| 02:20 – 02:30 | Break | NA | |
| 02:30 – 03:00 | Radiation Biology <ul style="list-style-type: none"> • Cellular, tissue, and systemic effects • Delayed effects, early somatic effects • Acute radiation syndrome • Hormesis, threshold vs. non-threshold | Understand the biological effects of radiation and the dose levels where these effects occur. Understand perceived vs. real risk. | Sue |
| 03:00 – 04:00 | Group Sessions | See Performance Objectives for Group | All |
| Tue. 04/01/03 | Description | Objectives | Trainer(s) |
| 07:30 – 08:00 a.m. | Continental Breakfast | NA | |
| 08:00 – 09:40 (10 min. break) | Radiation Detection and Measurement <ul style="list-style-type: none"> • Types of equipment • Appropriate uses • Demonstration of equipment • Self-reading dosimeters | Understand how to select and operate equipment for the different types of radiation. Understand the basic design principles of various detectors. | Ralph |
| 09:40 – 09:50 | Break | NA | |
| 09:50 – 10:40 | Radiation Protection <ul style="list-style-type: none"> • ALARA • Methods for protection • Posting and labeling requirements | Know what ALARA is and how to implement. Know methods used for radiation protection (e.g., time, distance, shielding, contamination control). Know how to apply inverse square law. Know when and where to post signs and apply labels. | Dee |

| Tue. 04/01/03 (continued) | Description | Objectives | Trainer(s) |
|--------------------------------------|--|--|-------------------|
| 10:40 – 11:30 | Group Sessions | See Performance Objectives for Group | All |
| 11:30 – 12:30 p.m. | Lunch | NA | |
| 12:30 – 01:15 | Radiation Protection Programs <ul style="list-style-type: none"> • Written programs • Key elements (e.g., RSO/RSC, facility design, PPE, procedures, records, audits) • Annual reviews | Know key elements of a radiation protection program. Know how to develop an effective program. Understand record keeping requirements | Josh |
| 01:15 – 01:30 | Responsibilities for Radiation Protection <ul style="list-style-type: none"> • Who is responsible • Legal issues | Understand the various responsibilities for radiation protection and regulatory compliance. | Sue |
| 01:30 – 01:40 | Break | NA | |
| 01:40 – 02:30 | Radiation Incidents and Emergency Response <ul style="list-style-type: none"> • Types (gauge, medical, academic) • Procedures • Source leakage, loss • Emergency personnel as responders • Performance based training • Interactions with public, media, and employees | Understand the RSO's role in planning for and preventing accidents. Know how to develop an emergency plan. | Judy Grunewald |
| 02:30 – 02:40 | Break | NA | |
| 02:40 – 03:00 | Packaging, Transport, and Receipt of Radioactive Materials <ul style="list-style-type: none"> • Shipper's responsibilities • Transportation regulations (NRC, DOT, IATA) • Classification and packaging • Transport on public roads • Receipt of radioactive materials | Know shipper's responsibilities. Know when radioactive materials are regulated for transportation purposes, and basic provisions for limited and Type A quantities of radioactive materials. Know DOT provisions for employee training and transport on public roads. Understand procedures for safe receipt and opening of packages. | Dee |
| 03:00 – 04:00 | Group Sessions | See Performance Objectives for Group | All |

| Wed. 04/02/03 | Description | Objectives | Trainer(s) |
|--------------------|---|---|------------|
| 07:30 – 08:00 a.m. | Continental Breakfast | NA | |
| 08:00 – 08:50 | NRC Regulations <ul style="list-style-type: none"> • Part 19, Notices, Instructions to Workers • Part 20, Radiation Protection Standards • Parts 30-35, license types and provisions • Special requirements (gauges and licenses) | Know critical provisions of Part 19 and 20 worker information and protection standards. Understand NRC license and registration requirements (e.g., exempt, general, specific). Be familiar with basic provisions for some specific license categories (e.g., manufacture, broad scope, radiography, medical use, irradiators). | Sue |
| 08:50 – 09:00 | Break | NA | |
| 09:00 – 09:50 | Regulatory Inspections <ul style="list-style-type: none"> • How to prepare for NRC/state inspections • How to deal with inspectors • What to do if the inspection is going badly • What to do if called for an enforcement conference • Interactions with the public and media | Understand the inspection process. Know how to prepare for and respond to enforcement activities. Understand the NRC's media notification criteria. Know key aspects of communicating with the public and media. | Sue |
| 09:50 – 10:20 | Group Sessions – Writing a License <ul style="list-style-type: none"> • New, renewal, & amendment applications • NRC Form 313 or equivalent for Agreement states • Content • Fees | Understand the do's and don'ts when writing a license. Know what references are available for assistance (e.g., NRC Regulatory Guides). | All |
| 10:20 – 10:30 | Break | NA | |
| 10:30 – 11:20 | Group Sessions – Reportable Incidents <ul style="list-style-type: none"> • When to/not to report an incident • Interactions with the public and media | Know NRC requirements for reporting incidents and misadministrations (medical). Understand the NRC's media notification criteria. Know key aspects of communicating with the public and media. | All |
| 11:20 – 12:00 | Examination | Complete exam and score 85% or better. | All |

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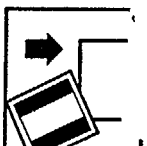
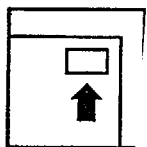
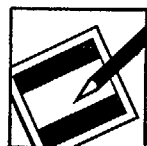


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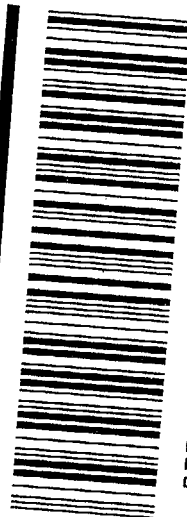
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From:

R.M. Wester & Associates, Inc.

"Specializing in Your Radiation Safety Needs"

215 Indacom Drive

Saint Peters, Missouri 63376-0015

TO

TO:

Mr Charles Gill
Materials Licensing Branch
Region III Office
US Nuclear Regulatory Commission
2443 Warrenville Road
Lisle Illinois 60532-4352

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